

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P859733

Luminaire Tested: **LX4C08D010 EX4C089730 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C08D010 EX4C089730 4LBLWW*
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

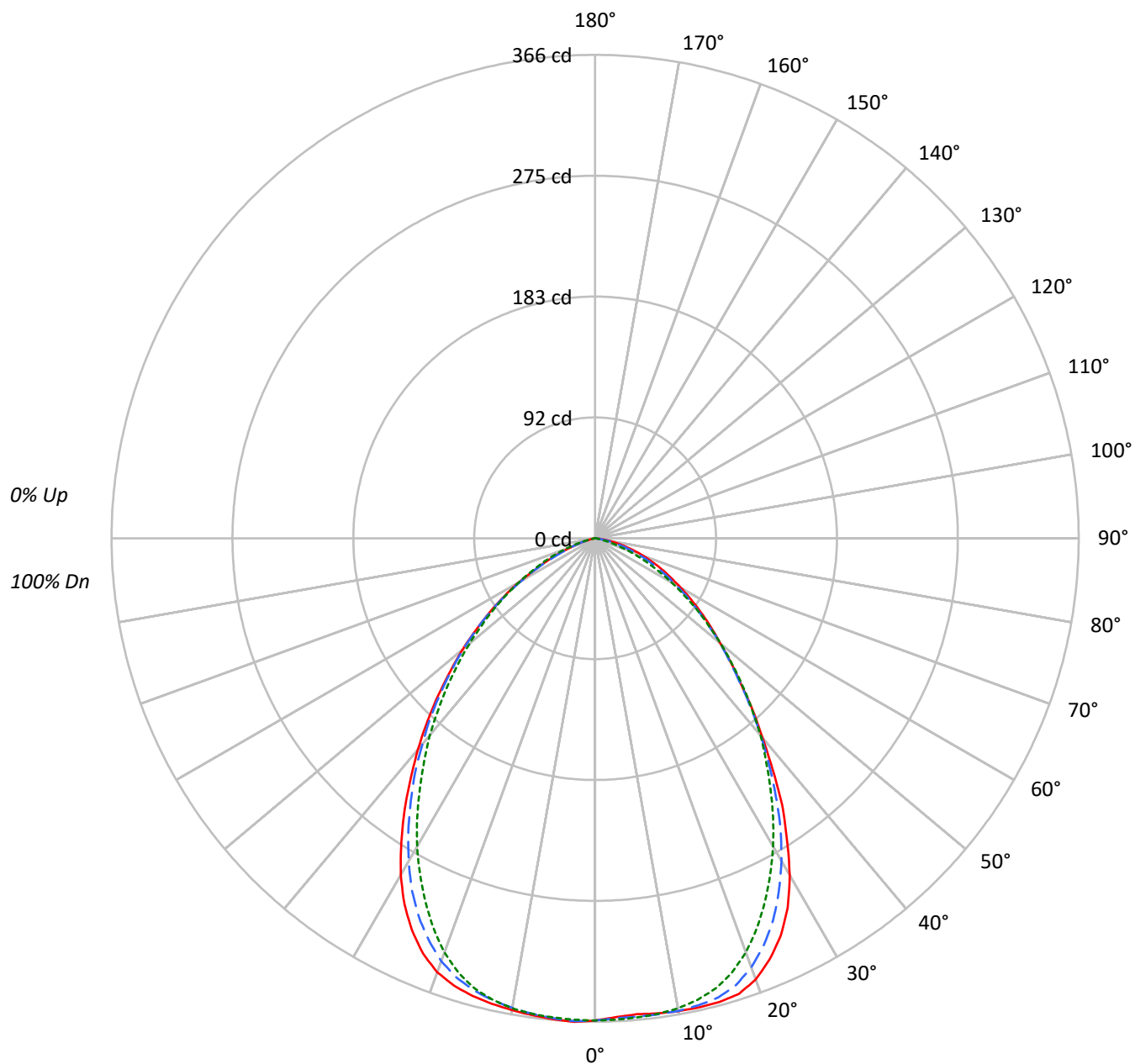
Lumens per Lamp: N/A
Luminaire Lumens: 700.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		109	105	102	99		101	99	96		97	95	93		94	92	91
2	103	96	91	86		101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	74		93	85	79	74		82	77	72		80	75	71		77	73	70
4	88	78	71	65		86	77	70	65		75	69	64		72	67	63		70	66	62
5	82	71	63	57		80	70	63	57		68	61	57		66	60	56		64	59	55
6	76	65	57	51		75	64	56	51		62	56	51		61	55	50		59	54	50
7	71	59	51	46		70	59	51	46		57	50	46		56	50	45		54	49	45
8	67	55	47	42		65	54	47	42		53	46	41		52	46	41		50	45	41
9	63	51	43	38		61	50	43	38		49	42	38		48	42	38		47	41	37
10	59	47	40	35		58	46	39	35		45	39	35		45	39	35		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	44854	44854	44854
5°	44606	44914	45074
10°	45346	45072	45246
15°	46233	44872	45622
20°	46464	43614	45693
25°	45031	41181	44421
30°	41792	38217	41721
35°	37014	34675	37719
40°	31562	31225	33438
45°	27104	27416	29136
50°	23661	23719	24980
55°	20905	20027	20712
60°	18330	16340	16266
65°	16221	12674	11279
70°	13829	8729	6681
75°	11202	4699	3038
80°	7641	1132	778
85°	2255	423	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	5.0
10°-20°	100.5	14.4
20°-30°	145.1	20.7
30°-40°	150.1	21.4
40°-50°	124.0	17.7
50°-60°	85.6	12.2
60°-70°	44.8	6.4
70°-80°	14.1	2.0
80°-90°	1.2	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	280.3	40.0
0°-40°	430.4	61.5
0°-60°	639.9	91.4
0°-90°	700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	365	365	365	365	365	
5°	362	364	364	365	366	35
15°	364	360	353	354	359	103
25°	332	319	304	316	328	152
35°	247	239	231	243	252	153
45°	156	155	158	165	168	122
55°	98	95	94	96	97	88
65°	56	51	44	36	39	55
75°	24	18	10	7	6	25
85°	2	1	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1
2.5°	362.8	362.9	362.9	363.2	363.2	363.2	363.3	363.3	363.5	363.6	363.7
5°	361.7	361.7	362.0	362.1	362.4	362.5	362.8	362.9	363.2	363.3	363.5
7.5°	362.8	362.8	362.9	363.1	363.1	363.2	363.2	363.3	363.5	363.6	363.6
10°	363.5	363.5	363.5	363.5	363.6	363.6	363.6	363.5	363.5	363.5	363.3
12.5°	363.7	363.7	363.6	363.5	363.6	363.5	363.5	363.1	362.8	362.5	362.1
15°	363.5	363.5	363.3	363.2	363.1	362.8	362.7	362.0	361.4	360.6	360.0
17.5°	361.7	361.4	361.1	360.9	360.3	359.9	359.6	358.4	357.4	356.1	354.6
20°	355.4	355.1	354.7	354.0	353.3	352.8	352.0	350.2	349.2	347.2	345.6
22.5°	345.1	344.8	345.0	343.7	342.4	341.5	341.0	339.5	337.8	335.2	333.6
25°	332.2	331.4	331.4	329.5	328.8	328.2	327.6	325.8	323.3	321.0	318.8
27.5°	315.5	314.4	313.8	313.6	311.9	310.7	309.7	308.4	306.3	304.2	301.2
30°	294.6	294.5	293.8	292.6	291.4	290.8	289.7	287.4	285.5	284.0	282.0
32.5°	270.1	270.0	270.0	270.0	269.1	269.0	267.4	266.1	264.6	262.3	261.1
35°	246.8	246.7	246.8	244.7	244.2	243.8	243.6	242.8	240.8	239.7	238.6
37.5°	220.5	220.9	220.6	220.1	220.7	219.5	220.5	218.7	217.9	217.6	216.4
40°	196.8	197.8	196.8	196.9	197.6	196.3	196.3	196.1	195.5	195.2	195.0
42.5°	176.5	175.1	175.9	175.2	175.9	175.5	174.8	175.2	175.4	174.8	174.7
45°	156.0	156.3	156.6	156.2	156.2	155.8	156.9	156.2	156.2	156.3	155.3
47.5°	139.4	139.0	139.3	139.0	139.2	138.9	139.2	139.3	139.0	139.0	138.2
50°	123.8	123.5	124.5	123.7	123.7	123.5	123.7	123.4	123.0	123.0	123.3
52.5°	110.2	109.7	109.5	110.2	109.3	109.3	109.4	109.1	108.6	108.3	107.6
55°	97.6	97.5	97.6	97.1	96.8	96.8	96.1	95.8	95.7	95.0	94.6
57.5°	85.8	85.4	85.6	85.4	84.9	84.7	84.2	84.2	83.6	83.1	82.4
60°	74.6	74.6	75.0	74.4	74.0	73.8	73.5	73.2	72.3	71.3	70.5
62.5°	64.6	64.7	64.6	64.2	63.9	63.6	63.3	62.5	61.7	61.2	60.2
65°	55.8	55.7	55.3	55.0	54.3	54.3	53.7	53.3	52.4	51.6	50.6
67.5°	46.8	46.5	46.5	46.5	45.7	45.5	45.2	44.4	43.6	42.5	41.7
70°	38.5	38.8	38.4	38.0	37.6	37.4	37.0	36.2	35.2	34.1	33.5
72.5°	30.7	31.0	30.6	30.4	29.6	29.3	29.2	28.5	27.4	26.7	25.6
75°	23.6	23.7	23.4	23.2	22.6	22.5	21.8	21.3	20.6	19.5	18.5
77.5°	17.0	16.7	16.7	16.2	15.6	15.6	15.5	14.7	13.7	12.9	12.1
80°	10.8	10.7	10.3	10.0	9.6	9.5	9.3	8.6	8.0	7.4	6.9
82.5°	5.5	5.3	5.2	5.1	4.8	4.5	4.7	4.1	3.8	3.3	2.9
85°	1.6	1.8	1.8	1.6	1.5	1.5	1.5	1.4	1.1	1.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1
2.5°	363.9	364.0	364.2	364.3	364.3	364.4	364.6	364.7	364.8	364.8	365.0
5°	363.6	363.9	363.9	364.0	364.0	364.0	364.2	364.2	364.2	364.2	364.3
7.5°	363.7	363.7	363.7	363.6	363.6	363.5	363.5	363.5	363.2	363.2	363.2
10°	363.1	362.9	362.8	362.5	362.4	362.2	362.0	361.7	361.4	361.3	361.0
12.5°	361.7	361.1	360.6	360.0	359.8	359.6	359.1	358.7	358.3	357.9	357.6
15°	358.9	358.1	357.2	356.1	355.8	355.5	354.6	353.7	353.2	352.8	352.1
17.5°	353.5	351.8	350.7	349.1	348.4	348.1	346.6	345.8	344.8	344.6	344.0
20°	343.7	342.2	340.2	338.7	337.8	337.0	335.8	334.7	333.6	333.6	332.9
22.5°	331.5	329.6	327.0	325.1	324.9	323.3	322.2	321.0	320.6	319.7	319.7
25°	316.2	314.5	311.6	310.0	309.2	308.8	307.0	305.3	304.5	303.8	304.4
27.5°	299.2	296.7	294.5	292.5	291.8	290.9	289.3	288.6	287.1	287.0	286.8
30°	279.7	277.2	275.0	274.1	272.7	272.0	270.8	270.0	269.4	269.4	269.1
32.5°	259.3	257.1	256.0	253.9	253.2	252.3	251.5	250.6	250.9	250.6	250.8
35°	237.2	236.6	234.6	233.4	233.4	233.2	231.8	231.3	231.0	231.2	231.8
37.5°	216.2	214.6	213.2	212.4	213.1	212.2	212.1	212.1	212.9	212.4	213.5
40°	193.9	193.7	193.2	193.5	193.6	192.6	192.9	193.0	193.6	194.7	194.8
42.5°	174.4	174.3	174.3	174.3	174.0	173.4	174.0	174.9	174.8	175.6	176.3
45°	155.6	155.3	155.9	155.5	156.3	156.6	156.2	156.4	157.3	157.8	158.9
47.5°	138.5	138.5	138.6	138.9	138.1	138.8	139.0	139.6	140.0	140.3	140.8
50°	122.6	122.6	122.3	122.3	122.3	122.7	122.2	122.8	123.0	124.1	124.8
52.5°	107.9	107.2	107.6	107.4	106.8	106.5	106.8	106.9	107.8	108.0	108.9
55°	93.9	93.9	92.8	92.5	93.0	92.8	92.7	92.7	93.1	93.5	94.2
57.5°	81.6	80.8	79.9	79.8	79.4	79.5	79.5	79.4	79.1	79.2	79.4
60°	69.9	69.4	68.1	68.1	68.0	67.9	67.2	67.0	66.4	66.5	65.9
62.5°	59.2	59.0	57.3	56.8	56.8	56.4	55.7	55.5	54.6	54.6	54.0
65°	49.6	48.8	47.9	46.9	46.9	46.3	45.9	44.7	44.0	43.6	42.8
67.5°	40.9	39.6	38.7	37.8	37.3	37.2	36.2	35.4	34.3	33.6	32.4
70°	32.4	31.4	30.4	29.6	29.1	28.5	27.6	26.3	25.5	24.3	23.4
72.5°	24.4	23.6	22.8	21.7	21.0	20.6	19.6	18.5	17.1	16.3	15.2
75°	17.5	16.6	15.5	14.5	14.1	13.7	12.6	11.8	10.8	9.9	8.8
77.5°	11.4	10.3	9.5	8.4	8.2	8.0	6.9	6.0	5.3	4.8	4.1
80°	6.0	5.5	4.8	4.1	3.8	3.4	2.9	2.5	2.1	1.6	1.4
82.5°	2.6	2.2	1.8	1.5	1.4	1.2	1.0	0.8	0.7	0.7	0.5
85°	0.7	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1
2.5°	365.1	365.3	365.4	365.4	365.5	365.7	365.7	365.8	365.9	366.1	366.1
5°	364.4	364.4	364.4	364.6	364.6	364.6	364.6	364.8	364.8	365.0	365.1
7.5°	363.1	363.1	363.1	363.1	362.9	363.1	362.9	362.9	363.2	363.3	363.5
10°	360.9	360.7	360.7	360.6	360.6	360.6	360.7	360.9	361.0	361.1	361.6
12.5°	357.4	357.3	357.3	357.2	357.2	357.3	357.4	357.7	358.3	358.5	359.1
15°	352.0	351.8	352.0	352.1	352.4	352.8	353.2	353.6	354.4	355.1	355.8
17.5°	344.0	344.1	344.3	344.6	345.0	345.5	346.6	347.7	348.7	349.8	350.9
20°	333.0	333.6	333.7	334.7	335.0	336.2	337.4	339.1	340.6	341.9	343.5
22.5°	319.9	320.3	320.8	321.9	322.6	324.3	325.8	327.7	329.3	331.1	333.3
25°	304.9	305.1	306.7	306.7	308.4	309.7	311.5	313.6	316.0	318.4	319.9
27.5°	287.9	288.6	289.8	290.4	291.6	293.8	295.3	297.8	300.3	302.3	304.0
30°	270.1	270.7	272.7	273.0	273.9	275.9	277.9	280.2	282.2	284.5	286.0
32.5°	251.3	252.8	254.1	255.0	255.3	258.2	259.3	260.9	263.1	265.4	266.9
35°	233.1	233.8	235.6	236.1	236.9	238.6	240.8	242.1	243.2	244.7	246.5
37.5°	213.8	215.8	216.2	217.9	218.1	219.6	220.7	222.4	223.8	225.1	225.4
40°	195.8	196.5	198.0	198.4	198.7	200.7	202.1	202.5	203.2	204.4	206.1
42.5°	177.6	178.2	179.9	179.5	180.7	181.7	182.4	184.0	184.7	185.1	185.1
45°	159.6	159.9	161.0	161.5	162.2	162.7	164.0	164.8	165.1	166.3	166.7
47.5°	142.5	142.7	143.6	144.5	144.2	144.9	146.3	146.7	146.8	147.7	148.1
50°	125.6	126.3	127.4	127.1	127.9	128.3	129.6	129.8	129.8	130.0	130.1
52.5°	109.8	110.4	110.6	110.9	111.3	112.0	112.6	112.3	112.8	113.4	113.0
55°	94.2	94.6	95.3	95.6	95.6	95.7	95.4	96.7	96.1	96.0	96.1
57.5°	79.9	79.4	79.2	79.9	80.2	80.1	79.7	80.2	80.2	79.9	79.5
60°	66.1	65.7	65.5	65.7	65.1	64.7	65.0	64.7	64.0	63.8	63.9
62.5°	53.5	53.1	52.0	52.0	51.7	51.6	50.5	50.6	50.0	49.2	49.5
65°	41.8	40.7	40.2	40.0	39.1	38.3	38.0	37.0	36.2	36.1	36.2
67.5°	31.4	30.2	29.2	28.8	28.2	27.6	26.6	25.8	26.1	25.9	26.5
70°	21.8	21.0	20.0	19.3	19.6	18.8	18.2	18.2	18.4	18.5	18.8
72.5°	14.5	13.4	13.0	12.6	12.3	11.8	12.1	12.1	11.9	12.1	11.8
75°	8.2	7.7	7.3	7.1	6.9	6.9	6.9	6.9	6.7	6.6	6.6
77.5°	3.7	3.4	3.3	3.2	3.2	3.2	3.0	2.9	2.9	2.9	2.7
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.5	0.5	0.7	0.7	0.7	0.5	0.7	0.7	0.5	0.5	0.7
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1
2.5°	366.2	366.4	366.4	366.4	366.5	366.5	366.5	366.5
5°	365.3	365.4	365.4	365.4	365.5	365.5	365.5	365.5
7.5°	363.6	363.7	363.7	363.9	363.9	364.0	364.0	364.2
10°	361.7	362.0	362.1	362.2	362.4	362.5	362.5	362.7
12.5°	359.6	359.9	360.0	360.3	360.6	360.7	360.9	361.0
15°	356.6	357.2	357.4	357.6	358.1	358.4	358.5	358.7
17.5°	351.8	352.9	353.3	353.6	354.2	354.7	355.1	355.2
20°	345.0	346.2	346.7	347.4	348.3	348.9	349.2	349.5
22.5°	335.4	336.7	337.6	338.4	339.1	339.8	340.9	340.4
25°	321.7	324.0	324.9	325.4	326.9	327.7	328.2	327.7
27.5°	306.3	307.7	308.5	309.5	310.5	311.4	311.6	312.5
30°	287.8	290.1	290.0	290.9	292.3	293.1	293.4	294.1
32.5°	268.6	269.7	270.5	270.4	270.9	272.4	271.9	273.1
35°	248.2	248.3	249.7	249.5	250.6	250.6	250.6	251.5
37.5°	226.4	228.0	227.3	229.0	228.4	228.8	228.8	229.1
40°	206.5	207.0	207.0	207.6	208.0	207.6	207.9	208.5
42.5°	185.9	186.5	186.6	186.3	186.7	188.0	187.0	187.8
45°	166.7	167.1	167.7	167.3	168.0	167.5	168.0	167.7
47.5°	148.6	148.5	148.4	149.4	148.5	148.6	149.2	148.2
50°	130.1	130.9	130.4	130.8	131.1	131.1	130.7	130.7
52.5°	113.7	113.5	113.1	113.5	113.3	113.4	113.7	113.4
55°	96.7	97.2	96.9	96.8	96.9	96.9	97.8	96.7
57.5°	79.9	79.7	80.1	81.0	80.1	80.8	81.2	81.3
60°	64.0	64.0	64.9	64.4	65.3	65.9	66.5	66.2
62.5°	48.8	49.5	49.8	49.9	50.7	51.3	51.3	51.1
65°	36.2	37.2	37.2	37.7	38.0	38.0	38.3	38.8
67.5°	26.7	26.7	26.9	27.1	27.0	27.0	27.3	27.4
70°	18.6	18.4	18.8	18.6	18.6	18.5	18.6	18.6
72.5°	11.8	11.8	11.9	11.8	11.5	11.7	11.7	11.9
75°	6.3	6.6	6.3	6.3	6.4	6.2	6.3	6.4
77.5°	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1
82.5°	0.5	0.7	0.5	0.7	0.5	0.5	0.5	0.5
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)